

1714 BSW

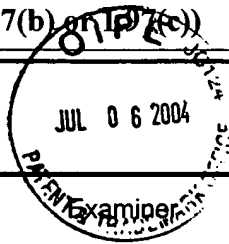
**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**

(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.

01640396AA

In Re Application Of: **Huang et al.**



Application No.

10/779,804

Filing Date

2-18-04

unknown

Customer No.

30743

Group Art Unit

1714

Confirmation No.

6824

Title: **HIGHLY CONDUCTIVE THERMOPLASTIC COMPOSITES FOR RAPID PRODUCTION OF FUEL CELL BIPOLAR PLATES**

Address to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**37 CFR 1.97(b)**

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

**OR**

☐ the fee set forth in 37 CFR 1.17(p).

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**

(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.

01640396AA

In Re Application: Huang et al.

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2-18-04

Examiner

unknown

Customer No.

30743

Group Art Unit

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**HIGHLY CONDUCTIVE THERMOPLASTIC COMPOSITES FOR RAPID PRODUCTION OF FUEL****Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of \_\_\_\_\_ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. 50-2041 as described below.
- ☐ Charge the amount of \_\_\_\_\_
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.

**Certificate of Transmission by Facsimile\***

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. \_\_\_\_\_)

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I certify that this document and fee is being deposited on \_\_\_\_\_ with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature of Person Mailing Correspondence

Typed or Printed Name of Person Mailing Certificate

\*This certificate may only be used if paying by deposit account.

Dated: 7-6-04

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Huang et al.

Serial No. 10/779,804

Group Art Unit: 1714

Filed: 2-18-04

Examiner: unknown

For: **HIGHLY CONDUCTIVE THERMOPLASTIC COMPOSITES FOR RAPID  
PRODUCTION OF FUEL CELL BIPOLAR PLATES**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Under the provisions of 37 C.F.R. 1.97 through 1.98 and pursuant to applicant's duty of disclosure under 37 C.F.R. 1.56, applicant respectfully brings the following documents, cited for the above-identified patent application and listed on the attached forms PTO-1449, to the attention of the Examiner in charge of the above-identified application.

This citation does not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicant is aware.

It is respectfully requested that the listed references be considered by the Examiner and be formally made record of in the application.

Please charge any deficiencies in fees and credit ant overpayment of fees to Attorney's deposit account 50-2041

Respectfully submitted,

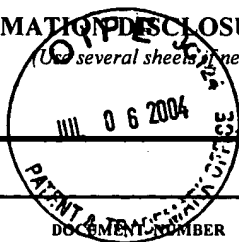
A handwritten signature in black ink, appearing to read 'M. Whitham', is written over the typed name.

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|  |   |   |
|--|---|---|
| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i> | Docket Number (Optional)<br><b>01640396AA</b> | Application Number<br><b>10/779,804</b> |
|  | Applicant(s)<br><b>Huang et al.</b>           |   |
|  | Filing Date<br><b>2-18-04</b>                 | Group Art Unit<br><b>1714</b>           |



| U.S. PATENT DOCUMENTS |     |                 |         |               |       |          |                               |
|-----------------------|-----|-----------------|---------|---------------|-------|----------|-------------------------------|
| *EXAMINER INITIAL     | REF | DOCUMENT NUMBER | DATE    | NAME          | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|                       | 1   | 5,614,312       | 3-25-97 | Tucker et al. |       |          | 6-27-95                       |
|                       | 2   | 5,942,347       | 8-24-99 | Koncar et al. |       |          | 5-20-97                       |
|                       | 3   | 4,214,969       | 7-29-80 | Lawrance      |       |          | 1-2-79                        |
|                       | 4   | 4,339,322       | 7-13-82 | Balko et al.  |       |          | 4-21-80                       |
|                       | 5   | 6,248,467       | 6-19-01 | Wilson et al. |       |          | 7-23-99                       |

| U.S. PATENT APPLICATION PUBLICATIONS |     |                 |      |      |       |          |                               |
|--------------------------------------|-----|-----------------|------|------|-------|----------|-------------------------------|
| *EXAMINER INITIAL                    | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|                                      |     |                 |      |      |       |          |                               |
|                                      |     |                 |      |      |       |          |                               |
|                                      |     |                 |      |      |       |          |                               |
|                                      |     |                 |      |      |       |          |                               |

| FOREIGN PATENT DOCUMENTS |     |                 |      |         |       |          |             |    |
|--------------------------|-----|-----------------|------|---------|-------|----------|-------------|----|
|                          | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation |    |
|                          |     |                 |      |         |       |          | YES         | NO |
|                          |     |                 |      |         |       |          |             |    |
|                          |     |                 |      |         |       |          |             |    |
|                          |     |                 |      |         |       |          |             |    |
|                          |     |                 |      |         |       |          |             |    |
|                          |     |                 |      |         |       |          |             |    |

| OTHER DOCUMENTS |  | <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |
|-----------------|--|---|
|                 |  | 1. F. Jousse et al. " Development of New Bi-Polar Plates Based on Electrically Conductive Filled Polymers for PEMFC" EUROMAT '99, Biannu. Meet. Fed. Eur. Mater. Soc. (FEMS) (2000). 13, 181-186.<br>2. J.G. Clulow et al. " Development of Vinyl Ester/Graphite Composite Bipolar Plates" Topical Conference Proceedings, 2002 AIChE Spring National Meeting, March 10-14, 2002 New Orleans, LA pp. 417-425. |
|                 |  | 3. D. Haack et al. "Scale up Carbon/Carbon composite bipolar plates" Topical Conference Proceedings, 2002 AIChE Spring National Meeting Meeting, March 10-14, 2002 New Orleans LA pp. 454-459<br>4. Besmann et al. "Carbon/Carbon Composite Bipolar for Proton Exchange Membrane Fuel Cells" Journal of the Electrochemical Society, pp. 4083-4086; 2000  |

|          |                 |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.